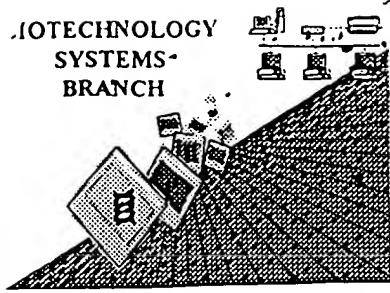


*0590
1011*

BIOTECHNOLOGY
SYSTEMS-
BRANCH



RAW SEQUENCE LISTING ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 09/759,130,4
Source: O1PE
Date Processed by STIC: 10/4/2001

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216.

PATENTIN 2.1 e-mail help: patin21help@uspto.gov or phone 703-306-4119 (R. Wax)

PATENTIN 3.0 e-mail help: patin3help@uspto.gov or phone 703-306-4119 (R. Wax)

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 3.0 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW:

Checker Version 3.0

The Checker Version 3.0 application is a state-of-the-art Windows based software program employing a logical and intuitive user-interface to check whether a sequence listing is in compliance with format and content rules. Checker Version 3.0 works for sequence listings generated for the original version of 37 CFR §§1.821 – 1.825 effective October 1, 1990 (old rules) and the revised version (new rules) effective July 1, 1998 as well as World Intellectual Property Organization (WIPO) Standard ST.25.

Checker Version 3.0 replaces the previous DOS-based version of Checker, and is Y2K-compliant. Checker allows public users to check sequence listings in Computer Readable form (CRF) before submitting them to the United States Patent and Trademark Office (USPTO). Use of Checker prior to filing the sequence listing is expected to result in fewer errored sequence listings, thus saving time and money.

Checker Version 3.0 can be down loaded from the USPTO website at the following address:
<http://www.uspto.gov/web/offices/pac/checker>

OIPE

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/759,130A

DATE: 10/04/2001
TIME: 13:00:32

Input Set : A:\10147-61.app
Output Set: N:\CRF3\10042001\I759130A.raw

Does Not Comply
Corrected Diskette Needed

pp 4,518

3 <110> APPLICANT: MCCARTHY, Sean A
 4 FRASER, Christopher C
 5 SHARP, John D
 6 BARNES, Thomas S
 7 KIRST, Susan J
 8 MACKAY, Charles R
 9 MYERS, Paul S
 10 LEIBY, Kevin R
 11 WRIGHTON, Nicholas
 12 GOODEARL, Andrew
 13 HOLTZMAN, Douglas A
 15 <120> TITLE OF INVENTION: NOVEL GENES ENCODING PROTEINS HAVING PROGNOSTIC,
 16 DIAGNOSTIC, PREVENTIVE, THERAPEUTIC, AND OTHER USES
 18 <130> FILE REFERENCE: 210147.0066/66US
 ✓ 20 <140> CURRENT APPLICATION NUMBER: US/09/759,130A
 C- 21 <141> CURRENT FILING DATE: 2001-01-19
 23 <150> PRIOR APPLICATION NUMBER: US 09/479,249
 24 <151> PRIOR FILING DATE: 2000-01-07
 26 <150> PRIOR APPLICATION NUMBER: US 09/559,497
 27 <151> PRIOR FILING DATE: 2000-04-27
 29 <150> PRIOR APPLICATION NUMBER: US 09/578,063
 30 <151> PRIOR FILING DATE: 2000-05-24
 32 <150> PRIOR APPLICATION NUMBER: US 09/333,159
 33 <151> PRIOR FILING DATE: 1999-06-14
 35 <150> PRIOR APPLICATION NUMBER: US 09/596,194
 36 <151> PRIOR FILING DATE: 2000-07-14
 38 <150> PRIOR APPLICATION NUMBER: US 09/342,364
 39 <151> PRIOR FILING DATE: 1999-06-29
 41 <150> PRIOR APPLICATION NUMBER: US 09/608,452
 42 <151> PRIOR FILING DATE: 2000-06-30
 44 <150> PRIOR APPLICATION NUMBER: US 09/393,996
 45 <151> PRIOR FILING DATE: 1999-09-10
 47 <150> PRIOR APPLICATION NUMBER: US 09/602,871
 48 <151> PRIOR FILING DATE: 2000-06-23
 50 <150> PRIOR APPLICATION NUMBER: US 09/420,707
 51 <151> PRIOR FILING DATE: 1999-10-19
 53 <160> NUMBER OF SEQ ID NOS: 460
 55 <170> SOFTWARE: PatentIn Ver. 2.1

ERRORED SEQUENCES

216 <210> SEQ ID NO: 3
 217 <211> LENGTH: 1151 *(p. 4)*
 218 <212> TYPE: PRT
 219 <213> ORGANISM: Homo sapiens
 221 <400> SEQUENCE: 3

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/759,130A

DATE: 10/04/2001
TIME: 13:00:32

Input Set : A:\10147-61.app
Output Set: N:\CRF3\10042001\I759130A.raw

222 Met His Gln Met Asn Ala Lys Met His Phe Arg Phe Val Phe Ala Leu
223 1 5 10 15
225 Leu Ile Val Ser Phe Asn His Asp Val Leu Gly Lys Asn Leu Lys Tyr
226 20 25 30
228 Arg Ile Tyr Glu Glu Gln Arg Val Gly Ser Val Ile Ala Arg Leu Ser
229 35 40 45
231 Glu Asp Val Ala Asp Val Leu Leu Lys Leu Pro Asn Pro Ser Thr Val
232 50 55 60
234 Arg Phe Arg Ala Met Gln Arg Gly Asn Ser Pro Leu Leu Val Val Asn
235 65 70 75 80
237 Glu Asp Asn Gly Glu Ile Ser Ile Gly Ala Thr Ile Asp Arg Glu Gln
238 85 90 95
240 Thr Leu Pro Thr Glu His Leu Gln Leu Phe His Ile Glu Val Glu Val
241 100 105 110
243 Leu Asp Ile Asn Asp Asn Ser Pro Gln Phe Ser Arg Ser Leu Ile Pro
244 115 120 125
246 Ile Glu Ile Ser Glu Ser Ala Ala Val Gly Thr Arg Ile Pro Leu Asp
247 130 135 140
249 Ser Ala Phe Asp Pro Asp Val Gly Glu Asn Ser Leu His Thr Tyr Ser
250 145 150 155 160
252 Leu Ser Ala Asn Asp Phe Phe Asn Ile Glu Val Arg Thr Arg Thr Asp
253 165 170 175
255 Glu Leu Lys Ser Ser Tyr Glu Leu Gln Leu Thr Ala Ser Asp Met Gly
256 180 185 190
258 Val Pro Gln Arg Ser Gly Ser Ser Ile Leu Lys Ile Ser Ile Ser Asp
259 195 200 205
261 Ser Asn Asp Asn Ser Pro Ala Phe Glu Gln Gln Ser Tyr Ile Ile Gln
262 210 215 220
264 Leu Leu Glu Asn Ser Pro Val Gly Thr Leu Leu Leu Asp Leu Asn Ala
265 225 230 235 240
267 Thr Asp Pro Asp Glu Gly Ala Asn Gly Lys Ile Val Tyr Ser Phe Ser
268 245 250 255
270 Ser His Val Ser Pro Lys Ile Met Glu Thr Phe Lys Ile Asp Ser Glu
271 260 265 270
273 Lys Ser Tyr Glu Ile Asp Val Gln Ala Gln Asp Leu Gly Pro Asn Ser
274 275 280 285
276 Ile Pro Ala His Cys Lys Ile Ile Ile Lys Val Val Asp Val Asn Asp
277 290 295 300
279 Asn Lys Pro Glu Ile Asn Ile Asn Leu Met Ser Pro Gly Lys Glu Glu
280 305 310 315 320
282 Ile Ser Tyr Ile Phe Glu Gly Asp Pro Ile Asp Thr Phe Val Ala Leu
283 325 330 335
285 Val Arg Val Gln Asp Lys Asp Ser Gly Leu Asn Gly Glu Ile Val Cys
286 340 345 350
288 Asn Asn Tyr Leu Ile Leu Thr Asn Ala Thr Leu Asp Arg Glu Lys Arg
289 355 360 365
291 Ser Glu Tyr Ser Leu Thr Val Ile Ala Glu Asp Arg Gly Thr Pro Ser
292 370 375 380
294 Leu Ser Thr Val Lys His Phe Thr Val Gln Ile Asn Asp Ile Asn Asp

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/759,130A

DATE: 10/04/2001
TIME: 13:00:32

Input Set : A:\10147-61.app
Output Set: N:\CRF3\10042001\I759130A.raw

295	385	390	395	400
297	Asn	Pro	Pro	His
	Phe	Gln	Arg	Ser
			Tyr	Glu
298				Phe
				Val
			Ile	Ser
				Glu
299				
300	Asn	Asn	Ser	Pro
	Gly	Ala	Tyr	Ile
			Thr	Thr
			Val	Thr
			Ala	Thr
				Asp
301				Pro
303	Phe	Ile	Leu	Gly
				Ser
			Ile	Thr
				Thr
			Tyr	Val
				Thr
			Ile	Asp
				Pro
304				Ser
306	Asn	Gly	Ala	Ile
			Tyr	Ala
				Leu
			Arg	Ile
				Phe
				Asp
				His
				Glu
				Glu
				Val
307				Ser
309	Gln	Ile	Thr	Phe
				Val
			Val	Glu
				Ala
				Arg
				Asp
			Gly	Gly
				Ser
				Pro
				Lys
310				Gln
312	Leu	Val	Ser	Asn
			Thr	Thr
			Val	Val
			Leu	Thr
				Ile
			Ile	Ile
				Asp
				Glu
				Asn
				Asp
313				
315	Asn	Val	Pro	Val
				Ile
			Gly	Pro
				Ala
			Leu	Arg
				Asn
				Asn
				Thr
				Ala
				Glu
316				
318	Ile	Thr	Ile	Pro
				Lys
			Gly	Ala
				Glu
			Ser	Gly
				Phe
				His
				Val
				Thr
				Arg
319				Ile
321	Ala	Ile	Val	Ala
				Gly
			Asn	Glu
				Glu
				Asn
			Ile	Phe
				Ile
			Ile	Ile
				Asp
				Pro
				Arg
322				
324	Ser	Cys	Asp	Ile
				His
			Thr	Asn
				Val
			Ser	Met
				Asp
			Ser	Val
				Pro
			Tyr	Thr
325				
327	Glu	Trp	Glu	Leu
			Ser	Val
			Ile	Ile
			Gln	Asp
				Lys
				Gly
				Asn
				Pro
				Gln
				Leu
328				
330	His	Thr	Lys	Val
				Leu
			Lys	Cys
				Met
			Ile	Phe
				Glu
				Tyr
				Ala
				Glu
331				Ser
333	Val	Thr	Ser	Thr
				Ala
			Met	Thr
			Ser	Val
				Ser
			Gln	Ala
				Ser
			Ile	Asp
				Val
334				
336	Leu	Val	Ile	Met
				Val
			Leu	Phe
				Ala
			Thr	Arg
				Cys
			Asn	Arg
				Glu
				Lys
337				
339	Asp	Thr	Arg	Ser
			Tyr	Asn
				Cys
			Arg	Val
				Ala
			Glu	Ser
				Thr
			Tyr	Gln
340				His
342	His	Pro	Lys	Arg
			Pro	Ser
				Arg
			Gln	Ile
				His
			Lys	Gly
				Asp
			Ile	Thr
				Leu
343				
345	Val	Pro	Thr	Ile
				Asn
			Gly	Thr
				Leu
			Pro	Ile
				Arg
			Ser	His
				His
346				Arg
				Ser
348	Ser	Pro	Ser	Ser
				Pro
			Thr	Leu
				Glu
				Arg
			Gly	Gln
				Met
			Gly	Ser
				Arg
349				
351	Ser	Ser	Asn	His
				Val
			Pro	Glu
				Asn
			Phe	Ser
				Leu
			Glu	Leu
				Thr
				His
352				Ala
354	Thr	Pro	Ala	Val
				Glu
			Gln	Val
				Ser
			Gln	Leu
				Leu
			Ser	Met
				Leu
				His
				Gln
355				
357	Gly	Gln	Tyr	Gln
				Pro
			Arg	Pro
				Ser
			Phe	Arg
				Gly
			Asn	Lys
				Tyr
			Ser	Arg
358				
360	Ser	Tyr	Arg	Tyr
				Ala
			Leu	Gln
				Asp
			Met	Asp
				Lys
			Phe	Ser
				Leu
			Lys	Asp
361				
363	Ser	Gly	Arg	Gly
				Asp
			Gly	Ser
				Asp
			Glu	Ala
				Gly
			Asp	Ser
				Tyr
			Asp	Leu
364				
366	Arg	Asp	Ser	Pro
				Ile
			Asp	Arg
				Leu
			Gly	Glu
				Gly
			Phe	Phe
				Ser
			Asp	Leu
367				

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/759,130A

DATE: 10/04/2001

TIME: 13:00:32

Input Set : A:\10147-61.app

Output Set: N:\CRF3\10042001\I759130A.raw

369 Glu Glu Cys Arg Val Leu Gly His Ser Asp Gln Cys Trp Met Pro Pro
 370 785 790 795 800
 372 Leu Pro Ser Pro Ser Ser Asp Tyr Arg Ser Asn Met Phe Ile Pro Gly
 373 805 810 815
 375 Glu Glu Phe Pro Thr Gln Pro Gln Gln His Pro His Gln Ser Leu
 376 820 825 830
 378 Glu Asp Asp Ala Gln Pro Ala Asp Ser Gly Glu Lys Lys Lys Ser Phe
 379 835 840 845
 381 Ser Thr Phe Gly Lys Asp Ser Pro Asn Asp Glu Asp Thr Gly Asp Thr
 382 850 855 860
 384 Val Asp Arg Ser Asn Ser Leu Glu Arg Arg Lys Gly Pro Leu Pro Ala
 385 865 870 875 880
 387 Glu Glu Ile Pro Glu Asn Tyr Glu Glu Asp Asp Phe Asp Asn Val Leu
 388 885 890 895
 390 Leu Val Ala Glu Ile Asn Lys Leu Leu Gln Asp Val Arg Gln Ser
 E--> 391 900 905 910 ←
 1579 <210> SEQ ID NO: 38
 1580 <211> LENGTH: 295 (p.5)
 1581 <212> TYPE: PRT
 1582 <213> ORGANISM: Homo sapiens
 1584 <400> SEQUENCE: 38
 1585 Ala Thr Arg Cys Asn Arg Glu Lys Lys Asp Thr Arg Ser Tyr Asn Cys
 1586 1 5 10 15
 1588 Arg Val Ala Glu Ser Thr Tyr Gln His His Pro Lys Arg Pro Ser Arg
 1589 20 25 30
 1591 Gln Ile His Lys Gly Asp Ile Thr Leu Val Pro Thr Ile Asn Gly Thr
 1592 35 40 45
 1594 Leu Pro Ile Arg Ser His His Arg Ser Ser Pro Ser Ser Pro Thr
 1595 50 55 60
 1597 Leu Glu Arg Gly Gln Met Gly Ser Arg Gln Ser His Asn Ser His Gln
 1598 65 70 75 80
 1600 Asn Phe Ser Leu Glu Leu Thr His Ala Thr Pro Ala Val Glu Val Ser
 1601 85 90 95
 1603 Gln Leu Leu Ser Met Leu His Gln Gly Gln Tyr Gln Pro Arg Pro Ser
 1604 100 105 110
 1606 Phe Arg Gly Asn Lys Tyr Ser Arg Ser Tyr Arg Tyr Ala Leu Gln Asp
 1607 115 120 125
 1609 Met Asp Lys Phe Ser Leu Lys Asp Ser Gly Arg Gly Asp Ser Glu Ala
 1610 130 135 140
 1612 Gly Asp Ser Asp Tyr Asp Leu Gly Arg Asp Ser Pro Ile Asp Arg Leu
 1613 145 150 155 160
 1615 Pro Ala Ala Met Arg Leu Cys Thr Glu Glu Cys Arg Val Leu Gly His
 1616 165 170 175
 1618 Ser Asp Gln Cys Trp Met Pro Pro Leu Pro Ser Pro Ser Asp Tyr
 1619 180 185 190
 1621 Arg Ser Asn Met Phe Ile Pro Gly Glu Glu Phe Pro Thr Gln Pro Gln
 1622 195 200 205
 1624 Gln Gln His Pro His Gln Ser Leu Glu Asp Asp Ala Gln Pro Ala Asp
 1625 210 215 220

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/759,130A

DATE: 10/04/2001
TIME: 13:00:32

Input Set : A:\10147-61.app
Output Set: N:\CRF3\10042001\I759130A.raw

1627 Ser Gly Glu Lys Lys Ser Phe Ser Thr Phe Gly Lys Asp Ser Pro
1628 225 230 235 240
1630 Ser Glu Met Ser Ser Val Phe Gln Arg Leu Leu Pro Pro Ser Leu Asp
1631 245 250 255
1633 Thr Asn Cys Gly Pro Pro Leu Gly Thr His Ser Ser Val Gln Pro Ser
1634 260 265 270
1636 His Glu Leu Met Asp Ala Ser Glu Leu Val Ala Glu Ile Asn Lys Leu
1637 275 280 285
1639 Leu Gln Asp Val Arg Gln Ser

E--> 1640 290 295 ←
 1762 <210> SEQ ID NO: 42
 1763 <211> LENGTH: 1183 1135 (P. 8)
 1764 <212> TYPE: PRT
 1765 <213> ORGANISM: Mus sp.
 1767 <400> SEQUENCE: 42
 1768 Met Met Leu Leu Leu Pro Phe Leu Leu Gly Leu Leu Gly Pro Gly Ser
 1769 1 5 10 15
 1771 Tyr Leu Phe Ile Ser Gly Asp Cys Gln Glu Val Ala Thr Val Met Val
 1772 20 25 30
 1774 Lys Phe Gln Val Thr Glu Glu Val Pro Ser Gly Thr Val Ile Gly Lys
 1775 35 40 45
 1777 Asp Ala Phe Gln Ile Leu Gln Leu Pro Gln Ala Leu Pro Val Gln Met
 1778 50 55 60
 1780 Asn Ser Glu Asp Gly Leu Leu Ser Thr Ser Arg Leu Asp Arg Glu
 1781 65 70 75 80
 1783 Lys Leu Cys Arg Gln Glu Asp Pro Cys Leu Val Ser Phe Asp Val Leu
 1784 85 90 95
 1786 Ala Thr Gly Ala Ser Ala Leu Ile His Val Glu Ile Gln Val Leu Asp
 1787 100 105 110
 1789 Ile Asn Asp His Gln Pro Gln Phe Pro Lys Asp Glu Gln Glu Leu Glu
 1790 115 120 125
 1792 Ile Ser Glu Ser Ala Ser Leu His Thr Arg Ile Pro Leu Asp Arg Ala
 1793 130 135 140
 1795 Leu Asp Gln Asp Thr Gly Pro Asn Ser Leu Tyr Ser Tyr Ser Leu Ser
 1796 145 150 155 160
 1798 Pro Ser Glu His Phe Ala Leu Asp Val Ile Val Gly Pro Asp Glu Thr
 1799 165 170 175
 1801 Lys His Ala Glu Leu Val Val Val Lys Glu Leu Asp Arg Glu Leu His
 1802 180 185 190
 1804 Ser Tyr Phe Asp Leu Val Leu Thr Ala Tyr Asp Asn Gly Asn Pro Pro
 1805 195 200 205
 1807 Lys Ser Gly Ile Ser Val Val Lys Val Asn Val Leu Asp Ser Asn Asp
 1808 210 215 220
 1810 Asn Ser Pro Val Phe Ala Glu Ser Ser Leu Ala Leu Glu Ile Pro Glu
 1811 225 230 235 240
 1813 Asp Thr Val Pro Gly Thr Leu Leu Ile Asn Leu Thr Ala Thr Asp Pro
 1814 245 250 255
 1816 Asp Gln Gly Pro Asn Gly Glu Val Glu Phe Phe Gly Lys His Val
 1817 260 265 270

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/759,130A

DATE: 10/04/2001
TIME: 13:00:32

Input Set : A:\10147-61.app
Output Set: N:\CRF3\10042001\I759130A.raw

1819 Ser Pro Glu Val Met Asn Thr Phe Gly Ile Asp Ala Lys Thr Gly Gln
 1820 275 280 285
 1822 Ile Ile Leu Arg Gln Ala Leu Asp Tyr Glu Lys Asn Pro Ala Tyr Glu
 1823 290 295 300
 1825 Val Asp Val Gln Ala Arg Asp Leu Gly Pro Asn Ser Ile Pro Gly His
 1826 305 310 315 320
 1828 Cys Lys Val Leu Ile Lys Val Leu Asp Val Asn Asp Asn Ala Pro Ser
 1829 325 330 335
 1831 Ile Leu Ile Thr Trp Ala Ser Gln Thr Ser Leu Val Ser Glu Asp Leu
 1832 340 345 350
 1834 Pro Arg Asp Ser Phe Ile Ala Leu Val Ser Ala Asn Asp Leu Asp Ser
 1835 355 360 365
 1837 Gly Asn Asn Gly Leu Val His Cys Trp Leu Asn Gln Glu Leu Gly His
 1838 370 375 380
 1840 Phe Arg Leu Lys Arg Thr Asn Gly Asn Thr Tyr Met Leu Leu Thr Asn
 1841 385 390 395 400
 1843 Ala Thr Leu Asp Arg Glu Gln Trp Pro Ile Tyr Thr Leu Thr Val Phe
 1844 405 410 415
 1846 Ala Gln Asp Gln Gly Pro Gln Pro Leu Ser Ala Glu Lys Glu Leu Gln
 1847 420 425 430
 1849 Ile Gln Val Ser Asp Val Asn Asp Asn Ala Pro Val Phe Glu Lys Ser
 1850 435 440 445
 1852 Arg Tyr Glu Val Ser Thr Trp Glu Asn Asn Pro Pro Ser Leu His Leu
 1853 450 455 460
 1855 Ile Thr Leu Lys Ala His Asp Ala Asp Leu Gly Ser Asn Gly Lys Val
 1856 465 470 475 480
 1858 Ser Tyr Arg Ile Lys Asp Ser Pro Val Ser His Leu Val Ile Ile Asp
 1859 485 490 495
 1861 Phe Glu Thr Gly Glu Val Thr Ala Gln Arg Ser Leu Asp Tyr Glu Gln
 1862 500 505 510
 1864 Met Ala Gly Phe Glu Phe Gln Val Ile Ala Glu Asp Arg Gly Gln Pro
 1865 515 520 525
 1867 Gln Leu Ala Ser Ser Ile Ser Val Trp Val Ser Leu Leu Asp Ala Asn
 1868 530 535 540
 1870 Asp Asn Ala Pro Glu Val Ile Gln Pro Val Leu Ser Glu Gly Lys Ala
 1871 545 550 555 560
 1873 Thr Leu Ser Val Leu Val Asn Ala Ser Thr Gly His Leu Leu Leu Pro
 1874 565 570 575
 1876 Ile Glu Asn Pro Ser Gly Met Asp Pro Ala Gly Thr Gly Ile Pro Pro
 1877 580 585 590
 1879 Lys Ala Thr His Ser Pro Trp Ser Phe Leu Leu Leu Thr Ile Val Ala
 1880 595 600 605
 1882 Arg Asp Ala Asp Ser Gly Ala Asn Gly Glu Leu Phe Tyr Ser Ile Gln
 1883 610 615 620
 1885 Ser Gly Asn Asp Ala His Leu Phe Phe Leu Ser Pro Ser Leu Gly Gln
 1886 625 630 635 640
 1888 Leu Phe Ile Asn Val Thr Asn Ala Ser Ser Leu Ile Gly Ser Gln Trp
 1889 645 650 655
 1891 Asp Leu Gly Ile Val Val Glu Asp Gln Gly Ser Pro Ser Leu Gln Thr

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/759,130A

DATE: 10/04/2001

TIME: 13:00:32

Input Set : A:\10147-61.app
 Output Set: N:\CRF3\10042001\I759130A.raw

1892	660	665	670	
1894	Gln Val Ser Leu Lys Val Val Phe Val Thr Ser Val Asp His Leu Arg			
1895	675	680	685	
1897	Asp Ser Ala His Glu Pro Gly Val Leu Ser Thr Pro Ala Leu Ala Leu			
1898	690	695	700	
1900	Ile Cys Leu Ala Val Leu Leu Ala Ile Phe Gly Leu Leu Leu Ala Leu			
1901	705	710	715	720
1903	Phe Val Ser Ile Cys Arg Thr Glu Arg Lys Asp Asn Arg Ala Tyr Asn			
1904	725	730	735	
1906	Cys Arg Glu Ala Glu Ser Ser Tyr Arg His Gln Pro Lys Arg Pro Gln			
1907	740	745	750	
1909	Lys His Ile Gln Lys Ala Asp Ile His Leu Val Pro Val Leu Arg Ala			
1910	755	760	765	
1912	His Glu Asn Glu Thr Asp Glu Val Arg Pro Ser His Lys Asp Thr Ser			
1913	770	775	780	
1915	Lys Glu Thr Leu Met Glu Ala Gly Trp Asp Ser Cys Leu Glu Ala Pro			
1916	785	790	795	800
1918	Phe His Leu Thr Pro Thr Leu Tyr Arg Thr Leu Arg Asn Gln Gly Asn			
1919	805	810	815	
1921	Gln Gly Glu Leu Ala Glu Ser Gln Glu Val Leu Gln Asp Thr Phe Asn			
1922	820	825	830	
1924	Phe Leu Phe Asn His Pro Arg Gln Arg Asn Ala Ser Arg Glu Asn Leu			
1925	835	840	845	
1927	Asn Leu Pro Glu Ser Pro Pro Ala Val Arg Gln Pro Leu Leu Arg Pro			
1928	850	855	860	
1930	Leu Lys Val Pro Gly Ser Pro Ile Ala Arg Ala Thr Gly Asp Gln Asp			
1931	865	870	875	880
1933	Lys Glu Glu Ala Pro Gln Ser Pro Pro Ala Ser Ser Ala Thr Leu Arg			
1934	885	890	895	
1936	Arg Gln Arg Asn Phe Asn Gly Lys Val Ser Pro Arg Gly Glu Ser Gly			
1937	900	905	910	
1939	Pro His Gln Ile Leu Arg Ser Leu Val Arg Leu Ser Val Ala Ala Phe			
1940	915	920	925	
1942	Ala Glu Arg Asn Pro Val Glu Glu Pro Ala Gly Asp Ser Pro Pro Val			
1943	930	935	940	
1945	Gln Gln Ile Ser Gln Leu Leu Ser Leu Leu His Gln Gly Gln Phe Gln			
1946	945	950	955	960
1948	Pro Lys Pro Asn His Arg Gly Asn Lys Tyr Leu Ala Lys Pro Gly Gly			
1949	965	970	975	
1951	Ser Ser Arg Gly Thr Ile Pro Asp Thr Glu Gly Leu Val Gly Leu Lys			
1952	980	985	990	
1954	Pro Ser Gly Gln Ala Glu Pro Asp Leu Glu Glu Gly Pro Pro Ser Pro			
1955	995	1000	1005	
1957	Leu Ser Ser Leu Leu Asp Pro Asn Thr Gly Leu Ala Leu Asp Lys Leu			
1958	1010	1015	1020	
1960	Ser Pro Pro Asp Pro Ala Trp Met Ala Arg Leu Ser Leu Pro Leu Thr			
1961	1025	1030	1035	1040
1963	Ser Glu Glu Pro Arg Thr Phe Gln Thr Phe Gly Lys Thr Val Gly Pro			
1964	1045	1050	1055	

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/759,130A

DATE: 10/04/2001
TIME: 13:00:32

Input Set : A:\10147-61.app
Output Set: N:\CRF3\10042001\I759130A.raw

1966 Gly Pro Glu Leu Ser Pro Thr Gly Thr Arg Leu Ala Ser Thr Phe Val
1967 1060 1065 1070
1969 Ser Glu Met Ser Ser Leu Leu Glu Met Leu Leu Gly Gln His Thr Val
1970 1075 1080 1085
1972 Pro Val Glu Ala Ala Ser Ala Ala Leu Arg Arg Leu Ser Val Cys Gly
1973 1090 1095 1100
1975 Arg Thr Leu Ser Leu Asp Leu Ala Thr Ser Gly Ala Ser Ala Ser Glu
1976 1105 1110 1115 1120
1978 Ala Gln Gly Arg Lys Lys Ala Ala Glu Ser Arg Leu Gly Cys Gly
E--> 1979 1125 1130 1135 ↙

→ Use of n and/or Xaa has been detected in the Sequence Listing.
Review the Sequence Listing to insure a corresponding
explanation is presented in the <220> to <223> fields of
each sequence using n or Xaa.

VERIFICATION SUMMARY

PATENT APPLICATION: US/09/759,130A

DATE: 10/04/2001

TIME: 13:00:35

Input Set : A:\10147-61.app

Output Set: N:\CRF3\10042001\I759130A.raw

L:20 M:270 C: Current Application Number differs, Replaced Current Application Number
L:21 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:391 M:252 E: No. of Seq. differs, <211>LENGTH:Input:1151 Found:911 SEQ:3
L:859 M:283 W: Missing Blank Line separator, <400> field identifier
L:860 M:300 W: (50) Intentionally skipped Sequence, : Sequence Id (9) SEQUENCE:
L:864 M:283 W: Missing Blank Line separator, <400> field identifier
L:865 M:300 W: (50) Intentionally skipped Sequence, : Sequence Id (10) SEQUENCE:
L:869 M:283 W: Missing Blank Line separator, <400> field identifier
L:870 M:300 W: (50) Intentionally skipped Sequence, : Sequence Id (11) SEQUENCE:
L:874 M:283 W: Missing Blank Line separator, <400> field identifier
L:875 M:300 W: (50) Intentionally skipped Sequence, : Sequence Id (12) SEQUENCE:
L:879 M:283 W: Missing Blank Line separator, <400> field identifier
L:880 M:300 W: (50) Intentionally skipped Sequence, : Sequence Id (13) SEQUENCE:
L:884 M:283 W: Missing Blank Line separator, <400> field identifier
L:885 M:300 W: (50) Intentionally skipped Sequence, : Sequence Id (14) SEQUENCE:
L:889 M:283 W: Missing Blank Line separator, <400> field identifier
L:890 M:300 W: (50) Intentionally skipped Sequence, : Sequence Id (15) SEQUENCE:
L:894 M:283 W: Missing Blank Line separator, <400> field identifier
L:895 M:300 W: (50) Intentionally skipped Sequence, : Sequence Id (16) SEQUENCE:
L:899 M:283 W: Missing Blank Line separator, <400> field identifier
L:900 M:300 W: (50) Intentionally skipped Sequence, : Sequence Id (17) SEQUENCE:
L:904 M:283 W: Missing Blank Line separator, <400> field identifier
L:905 M:300 W: (50) Intentionally skipped Sequence, : Sequence Id (18) SEQUENCE:
L:909 M:283 W: Missing Blank Line separator, <400> field identifier
L:910 M:300 W: (50) Intentionally skipped Sequence, : Sequence Id (19) SEQUENCE:
L:914 M:283 W: Missing Blank Line separator, <400> field identifier
L:915 M:300 W: (50) Intentionally skipped Sequence, : Sequence Id (20) SEQUENCE:
L:919 M:283 W: Missing Blank Line separator, <400> field identifier
L:920 M:300 W: (50) Intentionally skipped Sequence, : Sequence Id (21) SEQUENCE:
L:924 M:283 W: Missing Blank Line separator, <400> field identifier
L:925 M:300 W: (50) Intentionally skipped Sequence, : Sequence Id (22) SEQUENCE:
L:929 M:283 W: Missing Blank Line separator, <400> field identifier
L:930 M:300 W: (50) Intentionally skipped Sequence, : Sequence Id (23) SEQUENCE:
L:934 M:283 W: Missing Blank Line separator, <400> field identifier
L:935 M:300 W: (50) Intentionally skipped Sequence, : Sequence Id (24) SEQUENCE:
L:939 M:283 W: Missing Blank Line separator, <400> field identifier
L:940 M:300 W: (50) Intentionally skipped Sequence, : Sequence Id (25) SEQUENCE:
L:944 M:283 W: Missing Blank Line separator, <400> field identifier
L:945 M:300 W: (50) Intentionally skipped Sequence, : Sequence Id (26) SEQUENCE:
L:949 M:283 W: Missing Blank Line separator, <400> field identifier
L:950 M:300 W: (50) Intentionally skipped Sequence, : Sequence Id (27) SEQUENCE:
L:954 M:283 W: Missing Blank Line separator, <400> field identifier
L:955 M:300 W: (50) Intentionally skipped Sequence, : Sequence Id (28) SEQUENCE:
L:959 M:283 W: Missing Blank Line separator, <400> field identifier
L:960 M:300 W: (50) Intentionally skipped Sequence, : Sequence Id (29) SEQUENCE:
L:964 M:283 W: Missing Blank Line separator, <400> field identifier
L:965 M:300 W: (50) Intentionally skipped Sequence, : Sequence Id (30) SEQUENCE:
L:1348 M:283 W: Missing Blank Line separator, <400> field identifier

VERIFICATION SUMMARY
PATENT APPLICATION: US/09/759,130A

DATE: 10/04/2001
TIME: 13:00:35

Input Set : A:\10147-61.app
Output Set: N:\CRF3\10042001\I759130A.raw

L:1349 M:300 W: (50) Intentionally skipped Sequence, : Sequence Id (34) SEQUENCE:
L:1570 M:283 W: Missing Blank Line separator, <400> field identifier
L:1571 M:300 W: (50) Intentionally skipped Sequence, : Sequence Id (36) SEQUENCE:
L:1575 M:283 W: Missing Blank Line separator, <400> field identifier
L:1576 M:300 W: (50) Intentionally skipped Sequence, : Sequence Id (37) SEQUENCE:
L:1640 M:252 E: No. of Seq. differs, <211>LENGTH:Input:423 Found:295 SEQ:38
L:1644 M:283 W: Missing Blank Line separator, <400> field identifier
L:1645 M:300 W: (50) Intentionally skipped Sequence, : Sequence Id (39) SEQUENCE:
L:1979 M:252 E: No. of Seq. differs, <211>LENGTH:Input:1183 Found:1135 SEQ:42
L:1983 M:283 W: Missing Blank Line separator, <400> field identifier
L:1984 M:300 W: (50) Intentionally skipped Sequence, : Sequence Id (43) SEQUENCE:
L:1988 M:283 W: Missing Blank Line separator, <400> field identifier
L:1989 M:300 W: (50) Intentionally skipped Sequence, : Sequence Id (44) SEQUENCE:
L:1993 M:283 W: Missing Blank Line separator, <400> field identifier
L:1994 M:300 W: (50) Intentionally skipped Sequence, : Sequence Id (45) SEQUENCE:
L:1998 M:283 W: Missing Blank Line separator, <400> field identifier
L:1999 M:300 W: (50) Intentionally skipped Sequence, : Sequence Id (46) SEQUENCE:
L:2003 M:283 W: Missing Blank Line separator, <400> field identifier
L:2004 M:300 W: (50) Intentionally skipped Sequence, : Sequence Id (47) SEQUENCE:
L:2008 M:283 W: Missing Blank Line separator, <400> field identifier
L:2009 M:300 W: (50) Intentionally skipped Sequence, : Sequence Id (48) SEQUENCE:
L:2013 M:283 W: Missing Blank Line separator, <400> field identifier
L:2014 M:300 W: (50) Intentionally skipped Sequence, : Sequence Id (49) SEQUENCE:
L:2018 M:283 W: Missing Blank Line separator, <400> field identifier
L:2019 M:300 W: (50) Intentionally skipped Sequence, : Sequence Id (50) SEQUENCE:
L:2428 M:283 W: Missing Blank Line separator, <400> field identifier
L:2429 M:300 W: (50) Intentionally skipped Sequence, : Sequence Id (62) SEQUENCE:
L:2433 M:283 W: Missing Blank Line separator, <400> field identifier
L:2434 M:300 W: (50) Intentionally skipped Sequence, : Sequence Id (63) SEQUENCE:
L:2438 M:283 W: Missing Blank Line separator, <400> field identifier
L:2439 M:300 W: (50) Intentionally skipped Sequence, : Sequence Id (64) SEQUENCE:
L:2443 M:283 W: Missing Blank Line separator, <400> field identifier
L:2444 M:300 W: (50) Intentionally skipped Sequence, : Sequence Id (65) SEQUENCE:
L:2448 M:283 W: Missing Blank Line separator, <400> field identifier
L:2449 M:300 W: (50) Intentionally skipped Sequence, : Sequence Id (66) SEQUENCE:
L:2453 M:283 W: Missing Blank Line separator, <400> field identifier
L:2454 M:300 W: (50) Intentionally skipped Sequence, : Sequence Id (67) SEQUENCE:
L:2458 M:283 W: Missing Blank Line separator, <400> field identifier
L:2459 M:300 W: (50) Intentionally skipped Sequence, : Sequence Id (68) SEQUENCE:
L:2463 M:283 W: Missing Blank Line separator, <400> field identifier
L:2464 M:300 W: (50) Intentionally skipped Sequence, : Sequence Id (69) SEQUENCE:
L:2468 M:283 W: Missing Blank Line separator, <400> field identifier
L:2469 M:300 W: (50) Intentionally skipped Sequence, : Sequence Id (70) SEQUENCE:
L:3032 M:283 W: Missing Blank Line separator, <400> field identifier
L:3033 M:300 W: (50) Intentionally skipped Sequence, : Sequence Id (79) SEQUENCE:
L:3037 M:283 W: Missing Blank Line separator, <400> field identifier
L:3038 M:300 W: (50) Intentionally skipped Sequence, : Sequence Id (80) SEQUENCE:
L:3113 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:81
L:3113 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:81

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Input Set : A:\10147-61.app
Output Set: N:\CRF3\10042001\I759130A.raw

L:3114 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:81
L:3114 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:81
L:3283 M:283 W: Missing Blank Line separator, <400> field identifier
L:3284 M:300 W: (50) Intentionally skipped Sequence, : Sequence Id (87) SEQUENCE:
L:3331 M:283 W: Missing Blank Line separator, <400> field identifier
L:3332 M:300 W: (50) Intentionally skipped Sequence, : Sequence Id (89) SEQUENCE:
L:3336 M:283 W: Missing Blank Line separator, <400> field identifier
L:3337 M:300 W: (50) Intentionally skipped Sequence, : Sequence Id (90) SEQUENCE:
L:3411 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:91
L:3411 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:91
L:3412 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:91
L:3412 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:91
L:3604 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:96
L:3604 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:96
L:3605 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:96
L:3605 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:96
L:3790 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:101
L:3790 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:101
L:3791 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:101
L:3791 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:101
L:3972 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:106
L:3972 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:106
L:3973 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:106
L:3973 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:106
L:4150 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:111
L:4150 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:111
L:4151 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:111
L:4151 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:111
L:4253 M:283 W: Missing Blank Line separator, <400> field identifier
L:4254 M:300 W: (50) Intentionally skipped Sequence, : Sequence Id (116) SEQUENCE:
L:4258 M:283 W: Missing Blank Line separator, <400> field identifier
L:4259 M:300 W: (50) Intentionally skipped Sequence, : Sequence Id (117) SEQUENCE:
L:9840 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:324
L:9840 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:324
L:11213 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:343
L:11213 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:343
L:16904 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:450
L:16904 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:450
L:16904 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:450
L:16951 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:451
L:16951 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:451
L:16951 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:451
L:16983 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:452
L:16983 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:452
L:16983 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:452
L:17009 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:453
L:17009 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:453
L:17009 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:453
L:17036 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:454

VERIFICATION SUMMARY

PATENT APPLICATION: US/09/759,130A

DATE: 10/04/2001

TIME: 13:00:35

Input Set : A:\10147-61.app

Output Set: N:\CRF3\10042001\I759130A.raw

L:17036 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:454
L:17036 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:454
L:17039 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:454
L:17039 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:454
L:17039 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:454
L:17042 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:454
L:17042 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:454
L:17042 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:454
L:17062 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:455
L:17062 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:455
L:17062 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:455
L:17083 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:456
L:17083 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:456
L:17083 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:456
L:17086 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:456
L:17086 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:456
L:17086 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:456
L:17089 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:456
L:17089 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:456
L:17089 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:456
L:17124 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:457
L:17124 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:457
L:17124 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:457
L:17127 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:457
L:17127 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:457
L:17127 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:457